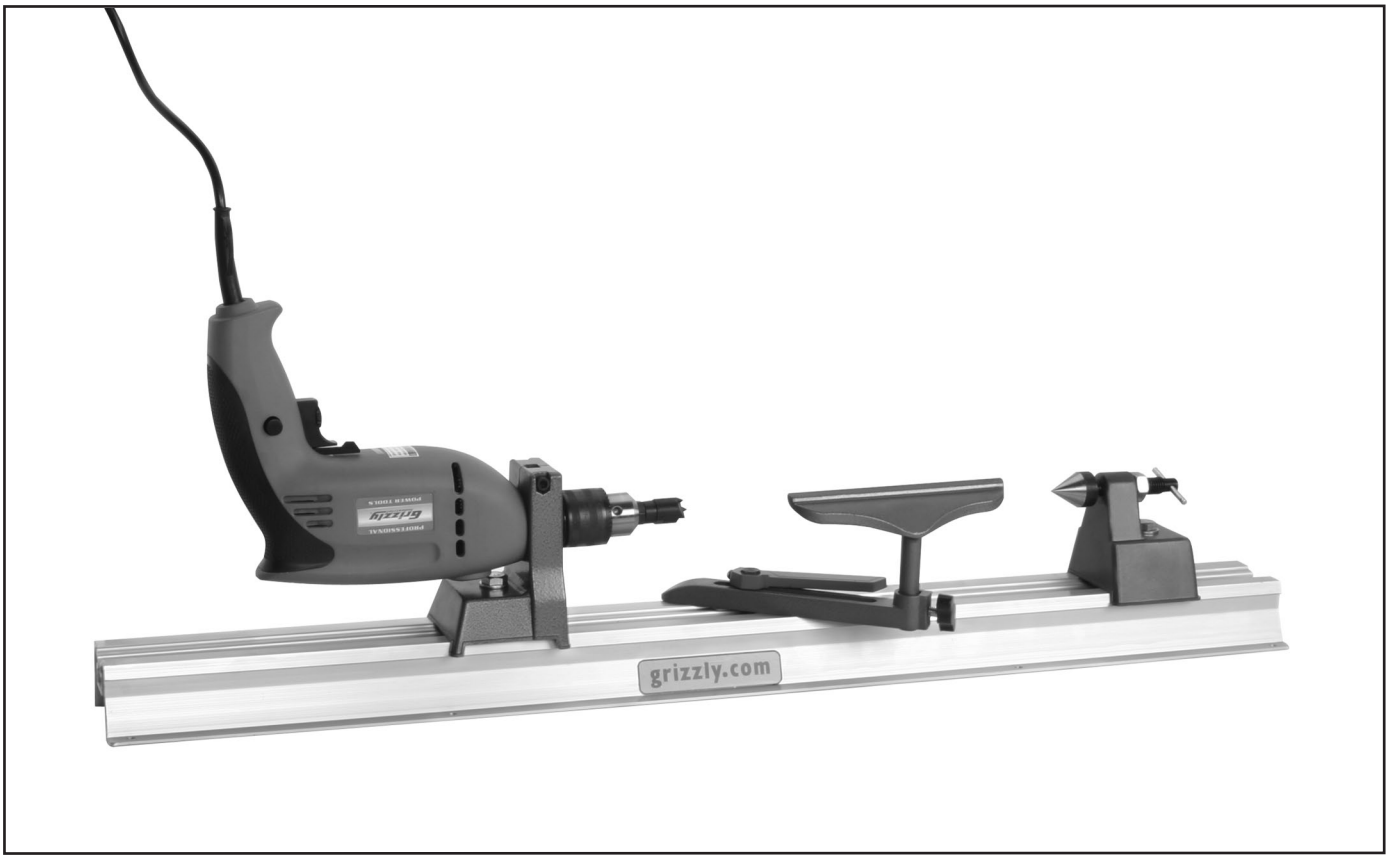
MODEL H2669
HOBBY LATHE
OWNER'S MANUAL



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#JC8562 PRINTED IN CHINA

⚠ WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

Failure to read, understand and follow the instructions given in this manual may result in serious personal injury, including amputation, electrocution or death.

The owner of this machine/equipment is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, blade/cutter integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.

⚠ WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **Lead from lead-based paints.**
- **Crystalline silica from bricks, cement and other masonry products.**
- **Arsenic and chromium from chemically-treated lumber.**

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

INTRODUCTION

Foreword

We are proud to offer the Model H2669 Swivel Head Mini-Lathe. This machine is part of a growing Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

We are pleased to provide this manual with the Model H2669 Mini-Lathe. It will guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible.

The specifications, drawings, and photographs illustrated in this manual represent the Model H2669 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at **www.grizzly.com**. Any updates to your machine will be reflected in these manuals as soon as they are complete. Visit our site often to check for the latest updates to this manual.

Contact Info

If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.
c/o Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

We stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com
Web Site: http://www.grizzly.com

MACHINE DATA SHEET

Customer Service #: (570) 546-9663 • To Order Call: (800) 523-4777 • Fax #: (800) 438-5901

MODEL H2669 HOBBY LATHE

Design Type:.....Bench Mount

Overall Dimensions:

- Including Bed, Headstock, Tailstock, Toolrest ..... 36½"L x 9½"W x 6"H
- Footprint.....36½" x 4½"
- Shipping Box Size .....37½"L x 5½"W x 6¼"H
- Total Shipping Weight..... 9.5 lbs.
- Machine Weight..... 9 lbs.

Specifications:

- Swing Over Bed.....6"
- Maximum Distance Between Centers.....24"
- Spindle Size..... M12-1.75 RH
- Spindle Speeds Governed by Drill Selection.....Up to 2500 RPM

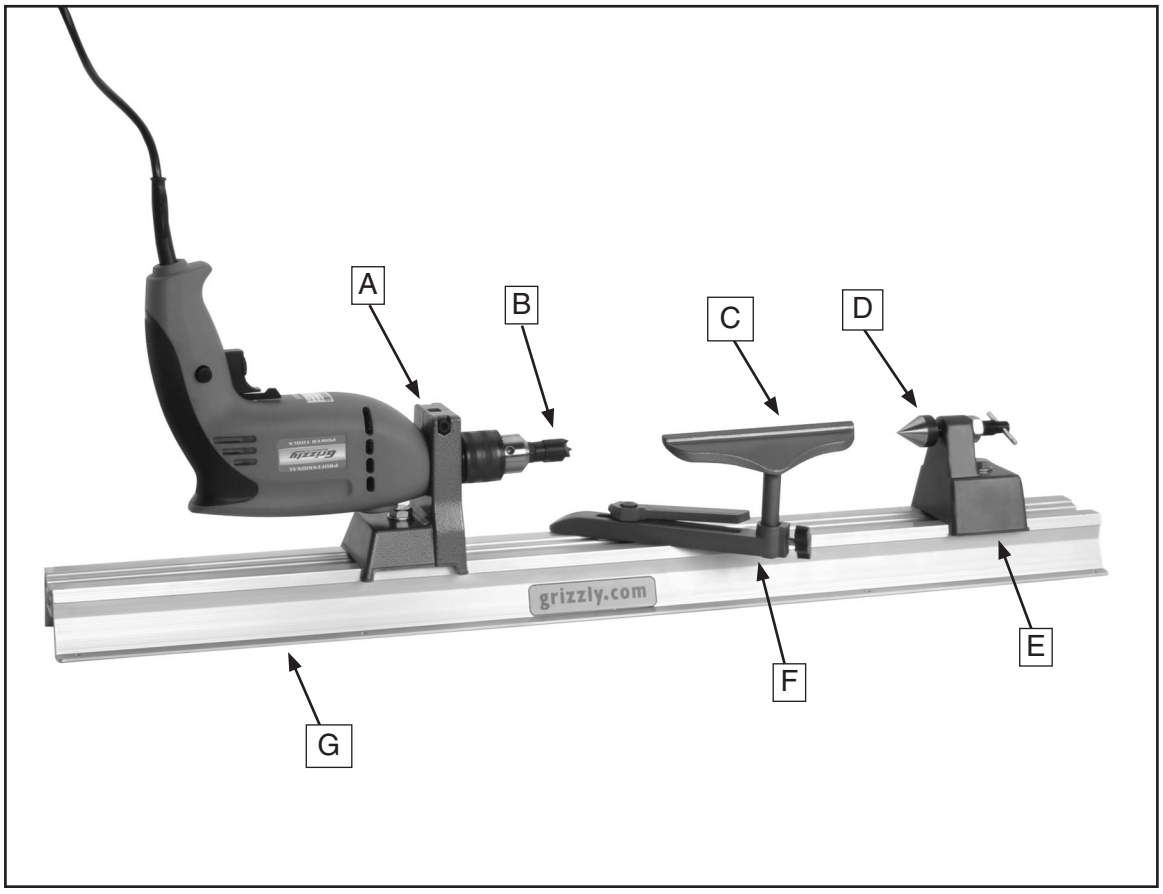
Construction:

- Bed.....Aluminum Alloy
- Spindle Bearings .....Shielded and Lubricated Ball Bearings
- Headstock..... Cast Aluminum
- Tailstock..... Cast Aluminum
- Toolrest and Tool Table ..... Cast Aluminum

Features:

- .....24" Between Centers
- ..... 5" Diameter Faceplate
- ..... Included Spur & Live Centers
- ..... 6" Swing Over Bed
- .....Head Swivels 360°

Identification



A. Headstock (Drill Clamp)
B. Spur Center
C. Toolrest
D. Live Center
E. Tailstock
F. Toolrest Base
G. Lathe Bed

SECTION 1: SAFETY

⚠WARNING

For Your Own Safety, Read Instruction Manual Before Operating this Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

⚠DANGER **Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.**

⚠WARNING **Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.**

⚠CAUTION **Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.**

NOTICE **This symbol is used to alert the user to useful information about proper operation of the machine.**

⚠WARNING

Safety Instructions for Machinery

1. **READ THE ENTIRE MANUAL BEFORE STARTING MACHINERY.** Machinery presents serious injury hazards to untrained users.
2. **ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY.** Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.
3. **ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.** Wood dust can cause severe respiratory illnesses.
4. **ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.** Machinery noise can cause permanent hearing loss.
5. **WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, or jewelry that can catch in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
6. **NEVER OPERATE MACHINERY WHEN TIRED OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Be mentally alert at all times when running machinery.

⚠WARNING
Safety Instructions for Machinery

7. **ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY.** Make sure operation instructions are safe and clearly understood.

8. **KEEP CHILDREN AND VISITORS AWAY.** Keep all children and visitors a safe distance from the work area.

9. **MAKE WORKSHOP CHILDPROOF.** Use padlocks, master switches, and remove start switch keys.

10. **NEVER LEAVE WHEN MACHINE IS RUNNING.** Turn power ***OFF*** and allow all moving parts to come to a complete stop before leaving machine unattended.

11. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.

12. **KEEP WORK AREA CLEAN AND WELL LIGHTED.** Clutter and dark shadows may cause accidents.

13. **USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE.** Grounded cords minimize shock hazards. Undersized cords create excessive heat. Always replace damaged extension cords.

14. **ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY**. Make sure switch is in OFF position before reconnecting.

15. **MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

16. **MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.**

17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Make a habit of checking for keys and adjusting wrenches before turning machinery ***ON***.

18. **CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY.** Check for binding or misaligned parts, broken parts, loose bolts, and any other conditions that may impair machine operation. Repair or replace damaged parts before operation.

19. **USE RECOMMENDED ACCESSORIES.** Refer to the instruction manual for recommended accessories. Improper accessories increase risk of injury.

20. **DO NOT FORCE MACHINERY.** Work at the speed for which the machine or accessory was designed.

21. **SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.

22. **DO NOT OVERREACH.** Maintain stability and balance at all times.

23. **MANY MACHINES CAN EJECT WORKPIECES TOWARD OPERATOR.** Know and avoid conditions that cause the workpiece to "kickback."

24. **ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY**.

25. **CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Be aware of the type of dust you are exposed to and always wear a respirator designed to filter that type of dust.

⚠WARNING
Additional Safety for Wood Lathes

1. **KEEPING GUARDS IN PLACE.** Make sure all guards are in place and that the lathe sits on a flat, stable surface.

2. **EYE/FACE PROTECTION.** Always wear eye protection or a face shield when operating the lathe.

3. **RESPIRATORY PROTECTION.** Always wear a respirator when using this machine. Wood dust may cause allergies or long-term respiratory health problems.

4. **MOUNTING WORKPIECE.** Before starting, be certain the workpiece has been properly embedded on the headstock and tailstock centers and that there is adequate clearance for the full rotation.

5. **WORKPIECE CONDITION.** Always inspect the condition of your workpiece. DO NOT turn pieces with knots, splits, or other potentially dangerous conditions. Make sure joints of glued-up pieces have high quality bonds and won't fly apart during operation.

6. **ADJUSTING TOOL REST.** Adjust tool rest to provide proper support for the turning tool you will be using. Test tool rest clearance by rotating workpiece by hand before turning lathe ***ON***.

7. **TURNING SPEED.** Select the correct turning speed for your work, and allow the lathe to gain full speed before using.

8. **USING SHARP CHISELS.** Keep lathe chisels properly sharpened and held firmly in position when turning.

9. **OPERATING DAMAGED LATHE.** Never operate the lathe with damaged or worn parts.

10. **ADJUSTMENTS/MAINTENANCE.** Make sure your wood lathe is turned ***OFF***, disconnected from the power source, and all moving parts have come to a complete stop before starting any inspection, adjustment, or maintenance procedure.

11. **STOPPING LATHE.** DO NOT stop the lathe by using your hand against the workpiece. Allow the lathe to stop on its own.

12. **AVOIDING ENTANGLEMENT.** Keep long hair and loose clothing articles such as sleeves, belts, and jewelry items away from the lathe spindle.

13. **FACEPLATE TURNING.** When faceplate turning, use lathe chisels on the downward spinning side of the workpiece only.

14. **SANDING/POLISHING.** Remove the tool rest when performing sanding or polishing operations.

15. **MATERIAL REMOVAL RATE.** Attempting to remove too much material at once may cause workpiece to fly out of the lathe.

⚠WARNING

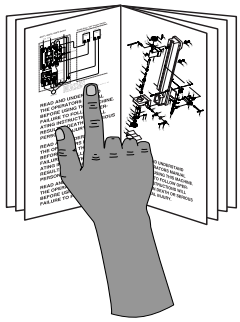
Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

⚠CAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.

SECTION 2: SETUP

Setup Safety

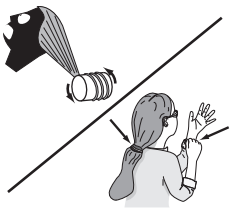


⚠WARNING

This tool presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before using!

⚠WARNING

Wear safety glasses during the entire set up process!



⚠WARNING

Tie back long hair, roll up long sleeves and remove loose clothing, jewelry or gloves to prevent getting caught in moving parts.

Items Needed for Setup

The following items are needed to complete the set up process, but are not included with your hobby lathe:

Description	Qty
• Variable Speed Electric Drill (Grizzly Model H0777 suggested)	1
• Safety Glasses	1
• Phillips Screwdriver #2	1

Unpacking

The Model H2669 was carefully packed when it left our warehouse. If you discover the machine is damaged after you have signed for delivery, *please call Grizzly Customer Service immediately at (570) 546-9663 for advice.*

Save the containers and all packing materials for possible inspection by the carrier or its agent, *otherwise, filing a freight claim can be difficult.*

When you are completely satisfied with the condition of your shipment, inventory the contents.

Inventory

When you remove all parts from the shipping box, you should have the following items:

Box Contents (Figures 1 & 2)	Qty
A. Lathe Bed	1
B. Tailstock Assembly	1
C. Toolrest	1
D. Headstock Assembly	1
E. Sanding Table	1
F. Faceplate with Sanding Disc	1
G. Toolrest Base and Lockdown Lever Assy	1

Hardware and Small Parts (not shown)

- Spur Center 1
- Screw Center 1
- Screw Center Set Screw 1
- Drill Adapter 1
- Tap Screws M4 x 15 8
- Hex Wrench 5MM 1
- Open End Wrench 17/22MM 1

NOTICE

Some hardware/fasteners on the inventory list may arrive pre-installed on the machine. Check these locations before assuming that items from the inventory list are missing.

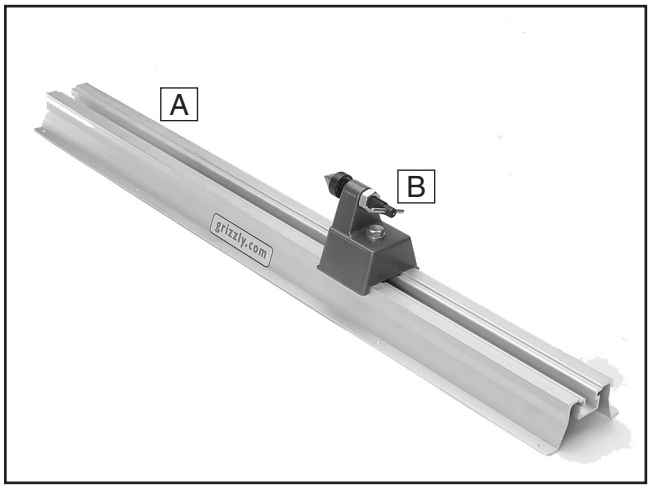


Figure 1. Box contents picture 1.

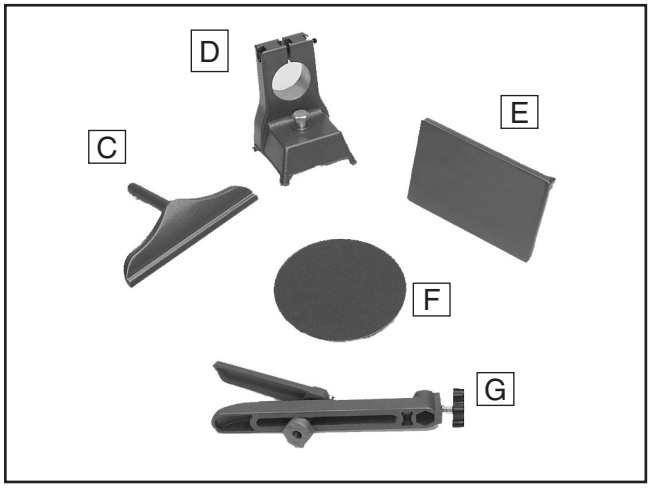
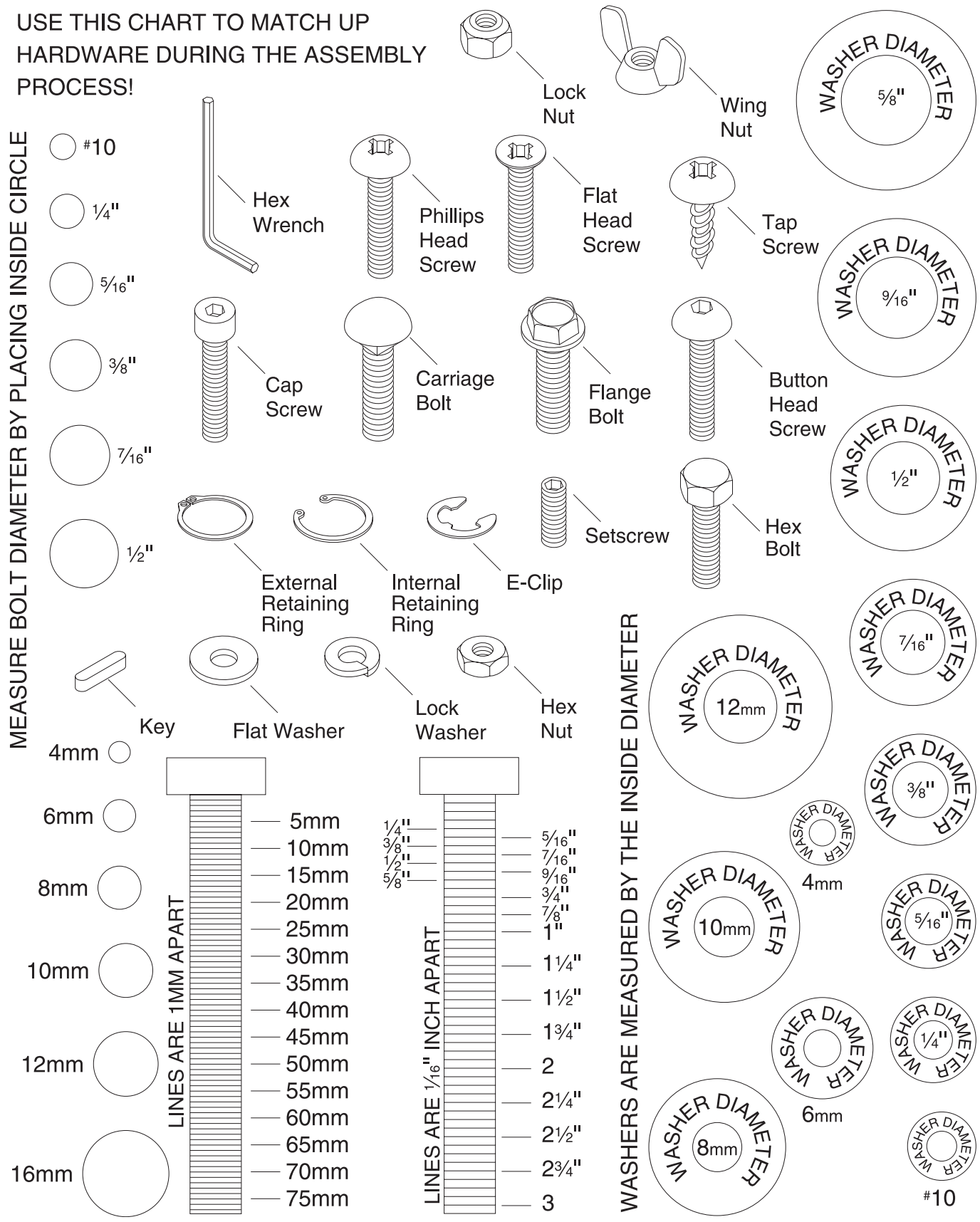


Figure 2. Box contents picture 2.

In the event that any nonproprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, or for the sake of expediency, replacements can be obtained at your local hardware store.

Hardware Recognition Chart



Mounting

Tap screws are provided with your lathe to mount it directly to your work surface using the holes in the lathe bed as illustrated in **Figure 3**.

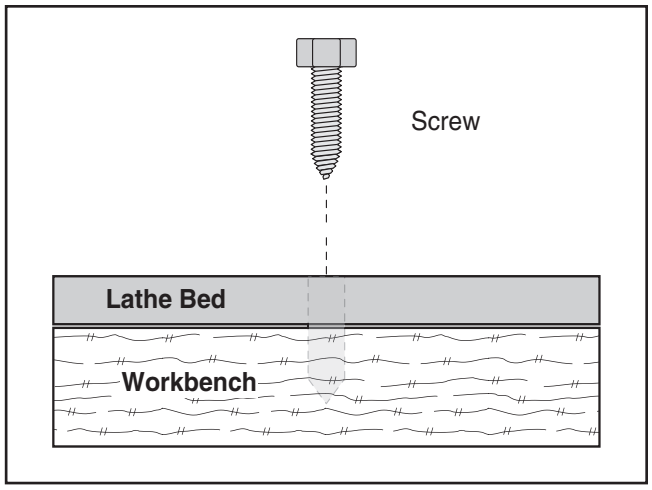


Figure 3. Example of a direct mount setup.

You may wish to mount your lathe using a "Through Mount." A through mount is accomplished by drilling holes all the way through the workbench; hex bolts, washers, and hex nuts are then used to secure the lathe to the workbench, as shown in **Figure 4**. This is the strongest mount possible.

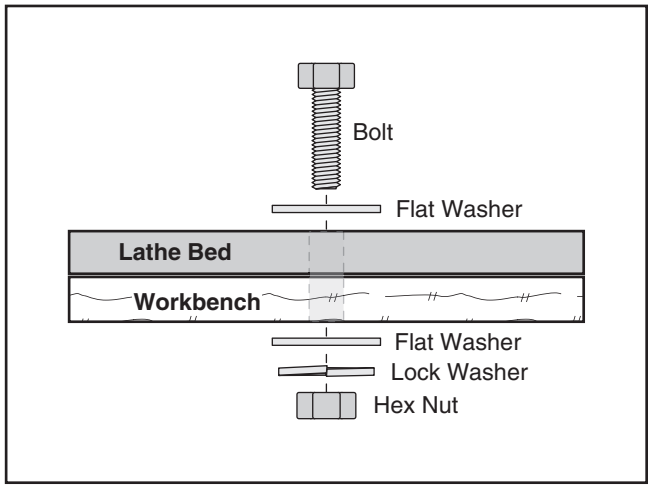


Figure 4. Example of a through mount setup.

Assembly

All operations of your hobby lathe require assembly of these basic components: lathe bed, headstock, toolrest, tailstock, and electric drill.

⚠WARNING

Improper assembly of the headstock and electric drill could result in serious personal injury to the operator or bystanders.

To assemble the basic components of the lathe:

1. Slide the headstock onto the lathe bed while making sure that the lock-down nut (T-Nut) moves smoothly in the lathe bed track.

   Note: *Moving the headstock and tailstock assemblies will be easier if the lock-down track is lightly lubricated with a product such as G96® Gun Treatment or SLIPIT®.*

2. Position the headstock so that the rear is at least 3/4" from the end of the bed, then use the open end wrench to tighten the hex bolt as shown in **Figure 5**.

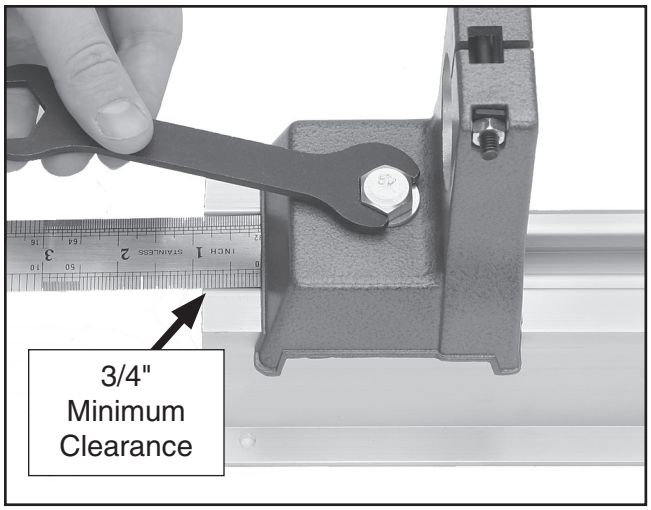


Figure 5. Mounting the headstock.

3. Use the provided hex wrench to clamp the electric drill in the headstock collar as shown in **Figure 6**.

Note: *Make certain that the drill chuck will not touch the headstock!*

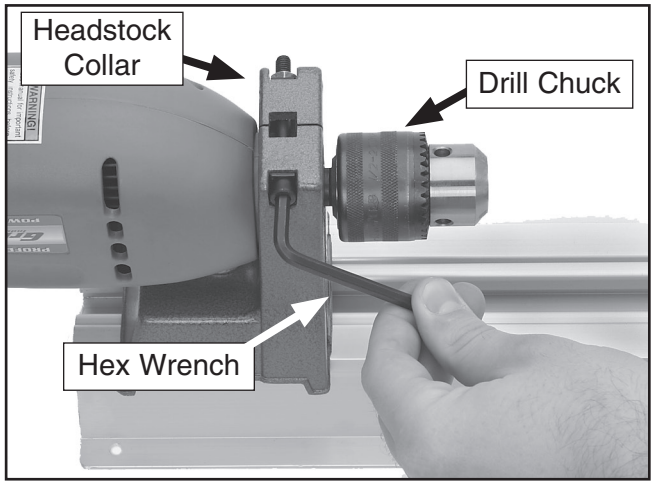


Figure 6. Clamping the drill to the headstock.

Note: *If the tailstock is mounted to the lathe bed when you receive it from our factory, then you must remove it before completing the next step.*

4. Slide the toolrest base to the middle of the lathe bed, starting from the end opposite the headstock, as shown in **Figure 7**.

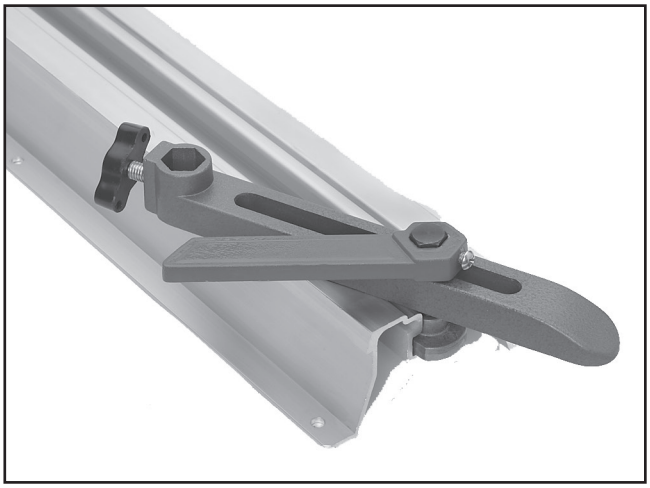


Figure 7. Mounting the toolrest base.

5. Lower the toolrest into the lock collar on the base until it is flush with the bottom of the lock collar, then tighten the lock knob securely as shown in **Figure 8**.

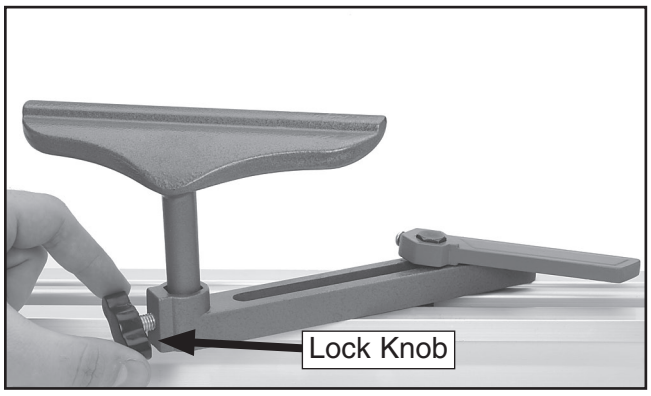


Figure 8. Mounting the toolrest.

6. Turn the lock-down lever clockwise to secure the toolrest base to the lathe bed as shown in **Figure 9**.

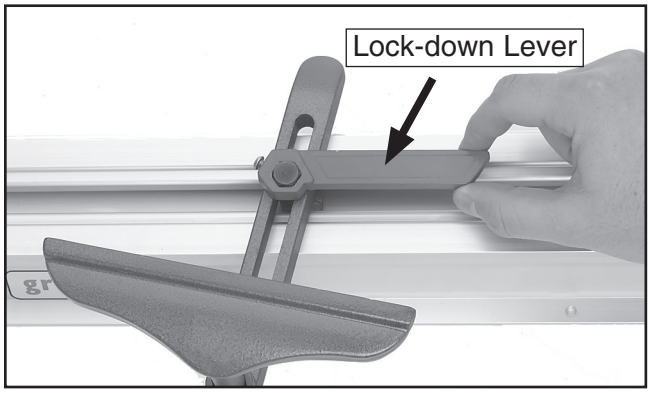


Figure 9. Securing the toolrest base.

The toolrest is now temporarily mounted to the lathe bed. Instructions for positioning and adjusting your toolrest during operations are given on **Page 15**.

Note: *Safe operation of the lathe requires correct positioning of the toolrest.*

7. Re-mount the tailstock to the lathe bed as shown in **Figure 10**. Position it temporarily a few inches from the end of the lathe bed and hand tighten the hex head bolt.

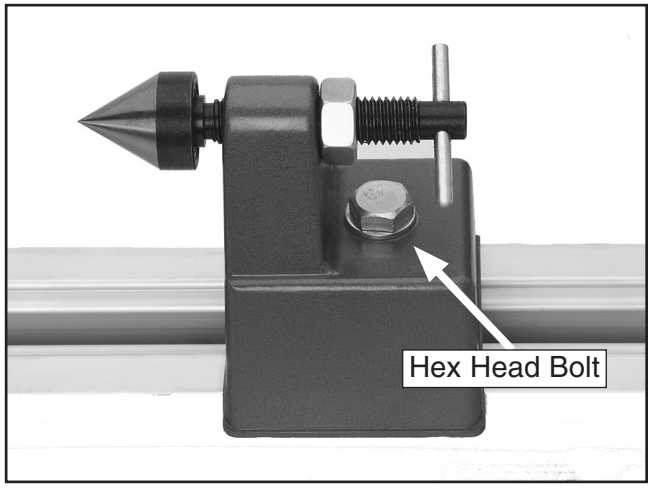


Figure 10. Mounting the tailstock.

Test Run

When assembly is complete, test run your machine to make sure it runs properly.

To test run the machine:

1. Make sure you have read and understand the safety instructions given at the beginning of this manual.

2. Make sure the machine is setup properly.

3. Make sure all tools and objects used during setup are clear of the machine

4. Connect the drill to the power source.

5. Turn the drill ***ON***.

6. Listen for abnormal noises and watch carefully for abnormal actions. The machine should run smoothly with little vibration or rubbing noises.

—If the machine runs smoothly with little or no vibration and no rubbing noises, then turn the drill ***OFF*** and proceed to **OPERATIONS** on **Page 12**.

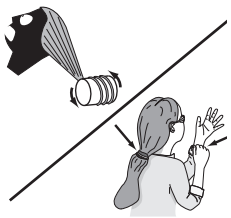
—If, during the test run, you cannot easily locate the source of an unusual noise or vibration, then turn the drill ***OFF*** immediately and review **Troubleshooting** on **Page 18**. If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.

SECTION 4: OPERATIONS

Operation Safety

⚠WARNING

Using this machine without proper protective gear could result in damage to your eyes, lungs, and ears. Always wear safety glasses, a respirator, and hearing protection when operating this machine.



⚠WARNING

Tie back long hair, roll up long sleeves and remove loose clothing, jewelry or gloves to avoid being pulled into moving parts.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY RECOMMEND that you read books, trade magazines, or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

Operations

The Model H2669 Hobby Lathe will perform many tasks, including spindle and faceplate turning as well as disc sanding.

This section will guide you through setup for a typical spindle turning application.

To setup for spindle turning:

1. DISCONNECT THE ELECTRIC DRILL FROM THE POWER SOURCE.

2. Mark both ends of your workpiece by drawing diagonal lines from corner to corner. The intersection point of these lines will show you the center of your workpiece. See **Figure 11** for details.

   Note: *24" is the maximum length of stock you can turn with your hobby lathe and 6" is your maximum end width.*

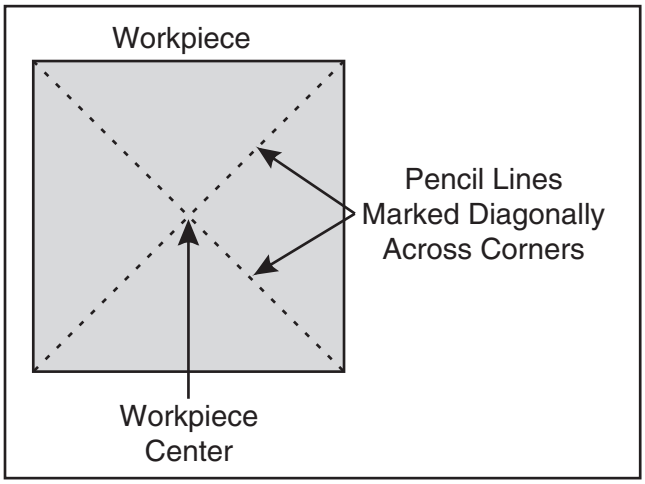


Figure 11. Workpiece marked diagonally across corners to determine the center.

3. Using a wood mallet, tap the point of the spur center into the center of the workpiece, so that it leaves a center mark, then remove the spur center.

4. Using a 1/8" drill bit, drill a 1/4" deep hole at the center mark. (Additionally, if the end of your workpiece is square, cut 1/8" deep saw kerfs across the corners to help embed the spur center.)

5. Cut the corners off your workpiece if it is over 2" x 2" to make turning safer and easier.

6. Drive the spur center into the center of the workpiece with a wood mallet as shown in **Figure 12**.

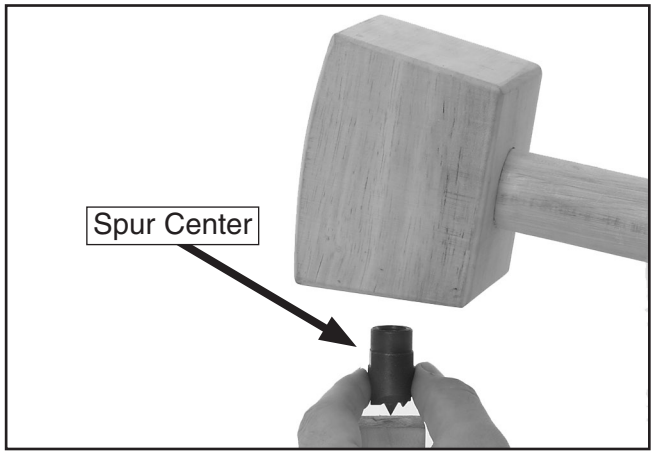


Figure 12. Driving in the spur center.

7. Insert the drill adapter into the drill chuck and tighten firmly.

8. With the workpiece still attached, screw the spur center onto the drill adapter.

9. Slide the tailstock toward the workpiece until the live center touches the workpiece center-point, then tighten the tailstock hex bolt.

10. With your workpiece suspended loosely between the spur and live center, turn the live center adjusting pin clockwise, as shown in **Figure 13**, until the workpiece is held firmly.

⚠WARNING

Do not press the workpiece too firmly with the tailstock or the bearing will bind and overheat. Likewise, do not adjust too loosely or the workpiece will spin off the lathe. Use good judgement. Serious personal injury could result if care is not taken.

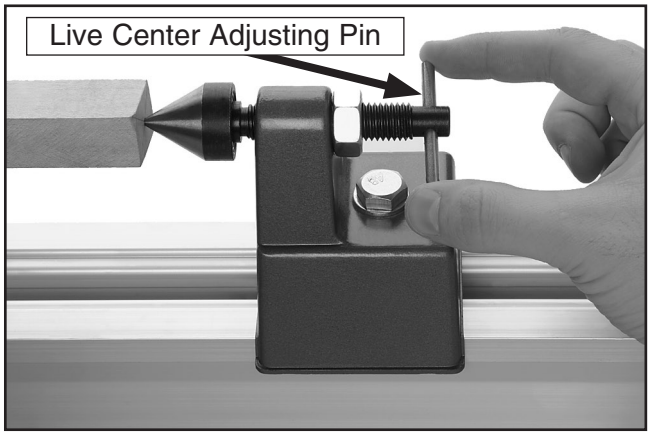


Figure 13. Clamping the workpiece to the tailstock.

11. Use the open end wrench to tighten the live center lock-nut as shown in **Figure 14**.

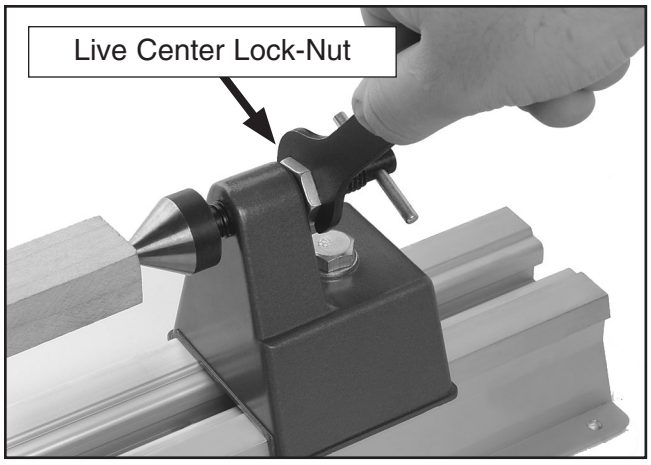


Figure 14. Tightening the live center lock-nut.

12. Position the tool rest approximately ¼" away from the workpiece and approximately ⅛" above the center line, as shown in **Figure 15**.

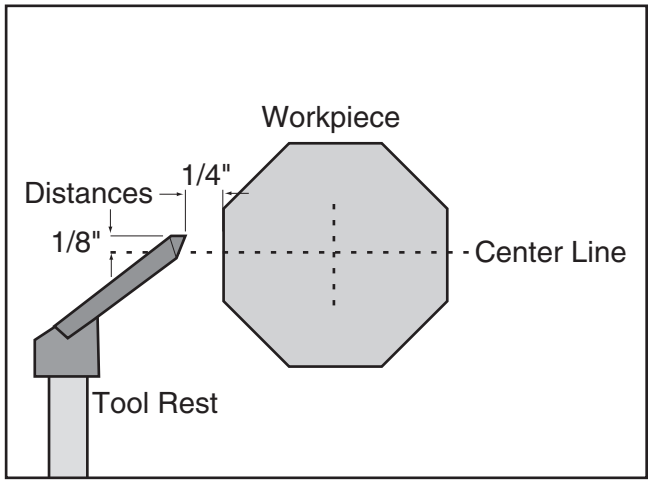


Figure 15. Tool rest set ⅛" above the center line and ¼" away from workpiece.

13. Test the setup by hand turning the workpiece to make sure there is enough clearance all the way around before starting.

Spindle Turning Tips:

- When turning the drill *ON*, stand to the side of the spinning direction until the lathe reaches full speed and you can verify that the lathe will not throw the workpiece.

- Use the slowest speed when starting or stopping the lathe, and when rough cutting.

- Select the right speed for the size of workpiece you are turning. Use slower speeds for large workpieces (4" diameter and over); use the middle range speeds for medium sized workpieces (2" to 4" diameter); and use faster speeds for small sized workpieces (under 2" in diameter).

- Keep the turning tool on the toolrest the ENTIRE time that it is in contact with the workpiece.

- Learn the correct techniques for each tool you will use. If you are unsure, read books or magazines about lathe techniques and seek training from experienced users.

In addition to spindle turning, your hobby lathe can be used for faceplate turning (commonly used to turn bowls), as well as for and disc sanding.

Faceplate turning and disc sanding are shown in **Figures 16 & 17**.

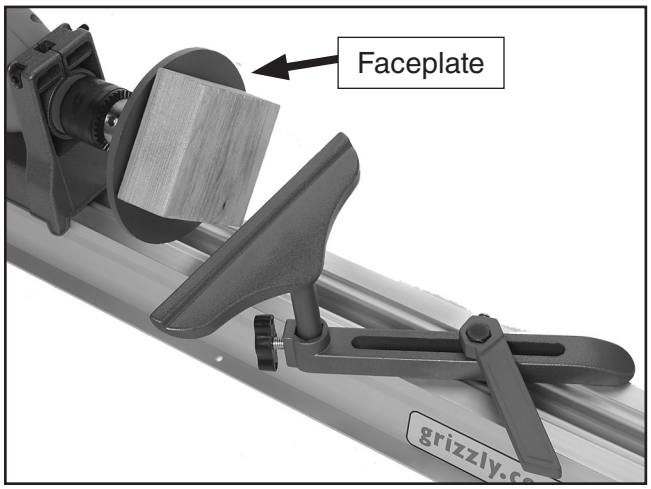


Figure 16. Typical faceplate turning setup.

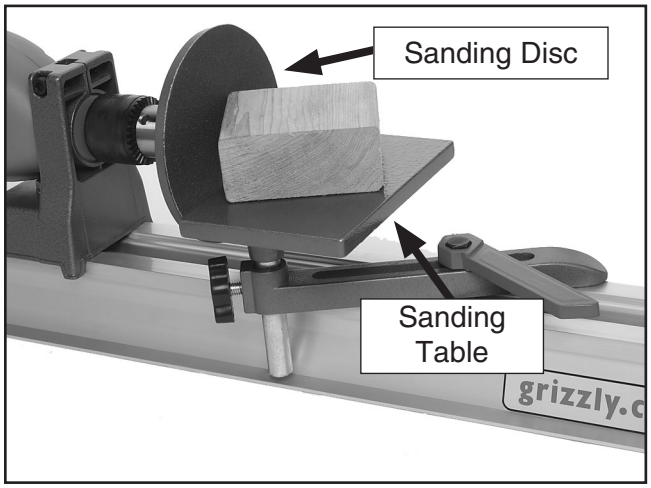


Figure 17. Typical disc sanding setup.

A comprehensive review of all lathe operations is beyond the scope of this manual. You will enjoy your lathe more if you take some time to consult reference books on lathe equipment and wood-turning techniques.

Your Grizzly catalog is an excellent source for lathe tools and accessories, including those shown in **SECTION 4**.

Selecting Turning Tools

Lathe tools come in a variety of shapes and sizes and usually fall into five major categories.

- **Gouges**—Mainly used for rough cutting, detail cutting, and cove profiles. The rough gouge is a hollow, double-ground tool with a round nose, and the detail gouge is a hollow, double-ground tool with either a round or pointed nose. **Figure 18** shows an example of a gouge.

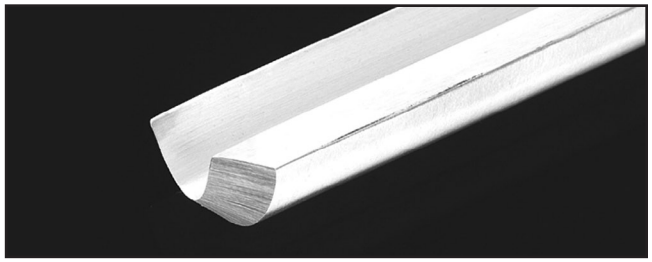


Figure 18. Gouge.

- **Skew Chisel**—A very versatile tool that can be used for planing, squaring, V-cutting, beading, and parting off. The skew chisel is flat, double-ground with one side higher than the other (usually at an angle of 20-40˚). **Figure 19** shows an example of a skew chisel.

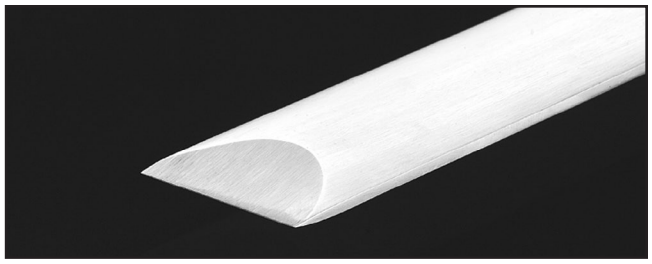


Figure 19. Skew chisel.

- **Scrapers**—Mainly used where access for other tools is limited, such as hollowing operations. This is a flat, double-ground tool that comes in a variety of profiles (Round Nose, Spear Point, Square Nose, etc.) to match many different contours. **Figure 20** shows an example of a round nose scraper.

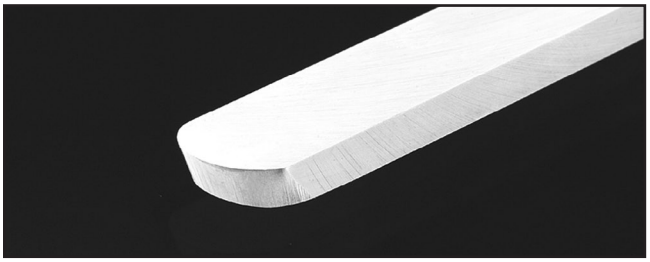


Figure 20. Round nose scraper.

- **Parting Tools**—Used for sizing and cutting off work. This is a flat tool with a sharp pointed nose that may be single- or double-ground. **Figure 21** shows an example of a parting tool.

Figure 21. Parting tool.

- **Specialty Tools**—These are the unique, special function tools to aid in hollowing, bowl making, and cutting profiles.

SECTION 4: ACCESSORIES

H0777—Heavy-Duty ½" Electric Drill
Variable speed to 2500 RPM. ½" chuck. Perfect for the H2669 Hobby Lathe.

Figure 22. Model H0777 variable speed drill.

G5838—5 piece Wood Turning Set
Chrome vanadium steel turning chisels with beechwood handles. Excellent for a variety of turning tasks. 12" long overall with 8" handles.

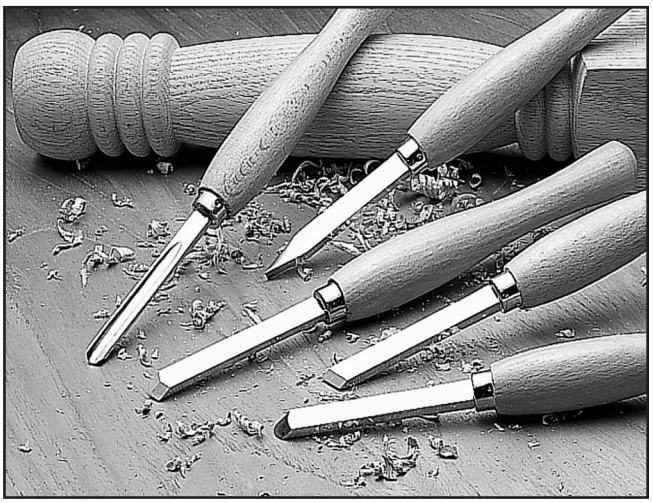


Figure 23. G5838 5-Pc. chisel set.

G8945—8-Pc. Lathe Chisel Set
The handles of these chisels are proportionately longer than their cutting ends. This design gives you outstanding control over your work.

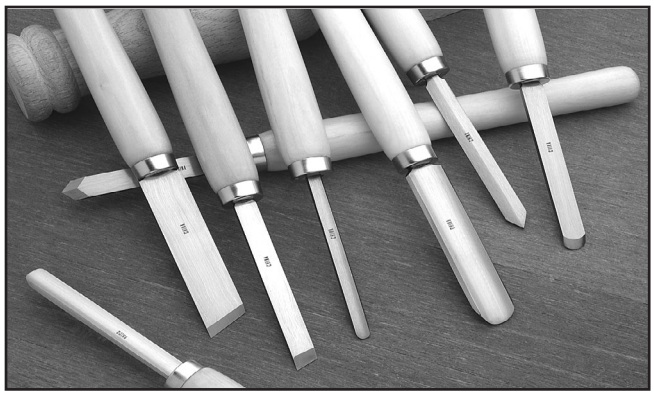


Figure 24. G8945 8-Pc. chisel set.

G7984—Face Shield
H1298—Dust Sealed Safety Glasses
H1300—UV Blocking, Clear Safety Glasses
H2347—Uvex® Spitfire Safety Glasses
H0736—Shop Fox® Safety Glasses
Safety Glasses are essential to every shop. If you already have a pair, buy extras for visitors or employees. You can't be too careful when it comes to shop safety!

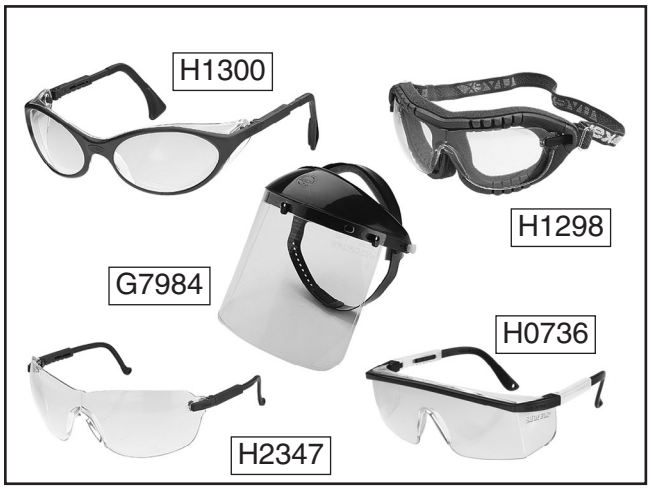
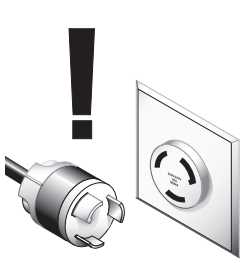


Figure 25. Our most popular safety glasses.

Call 1-800-523-4777 To Order

SECTION 5: MAINTENANCE



⚠WARNING

Always disconnect power to the lathe before performing maintenance. Failure to do this may result in serious personal injury.

Inspection

For optimum performance from your lathe, follow the inspection routine below and attend to any specific instructions given in this section.

Prior to Any Operation:

- Make certain that the lathe bed is securely mounted to your work surface.
- Make certain that your electric drill is clamped tightly in the headstock.
- Check the headstock and tailstock lock-down bolts to make sure they are tight in the lathe bed.
- Clear away loose tools, hardware or any other object that could contact moving workpieces or lathe assemblies.

Monthly Maintenance Inspection:

- Inspect the threads screws, bolts and nuts used to position and secure lathe assemblies. Look carefully to detect heavily worn or stripped threads. Replace any part that shows excess thread wear.
- Check all components for structural damage, including hairline cracks. If you detect damage to any part, replace that part before operating the lathe again.

Lubrication

Keep a light coating of lubricant on the lathe bed track at all times. Doing so will prolong the working life of all assemblies that are repositioned frequently.

Additionally, keep a light coating of lubricant on the threads of all adjusting screws, bolts, and nuts. Doing this will make adjustments easier and extend the life of the fasteners.

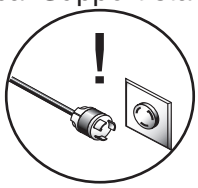
Your Grizzly catalog features many lubricants and cleaning agents specifically selected for use with Grizzly tools and machines.

Cleaning

Cleaning your Model H2669 Hobby Lathe is easy. Vacuum excess wood chips and sawdust, and wipe away remaining dust with a dry cloth. If any wood resins have built up, use a resin dissolving cleaner to remove them. Treat all unpainted cast iron and steel with a non-staining lubricant after cleaning.

SECTION 6: SERVICE

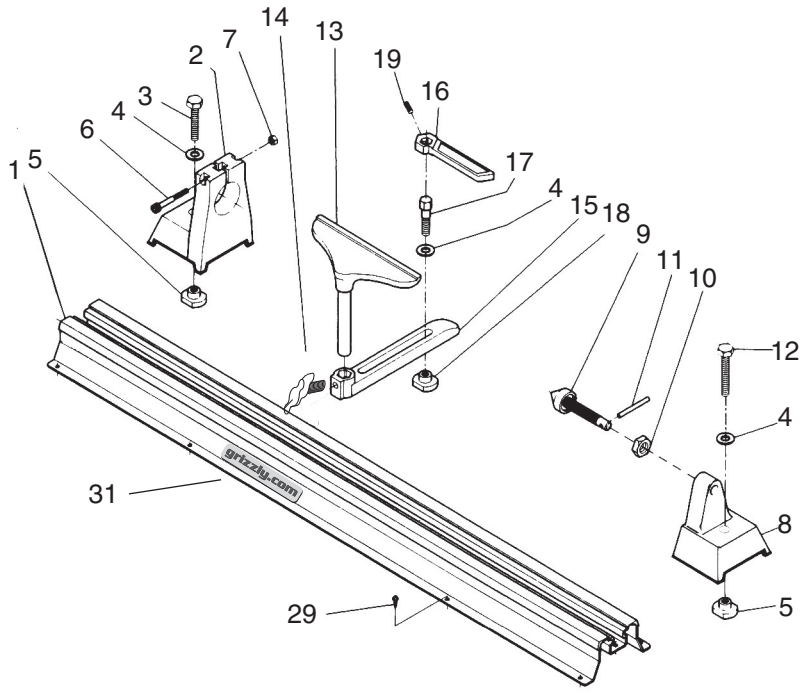
Review the troubleshooting tips and procedures in this section to fix your machine if a problem develops. If you need replacement parts or are unsure of your repair skills, feel free to call our Technical Support staff at (570) 546-9663 for assistance.

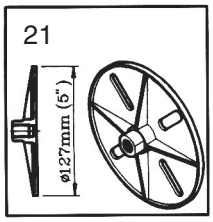


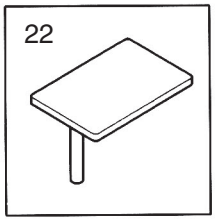
Troubleshooting

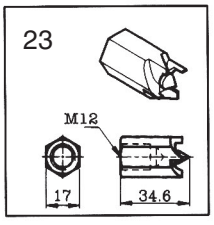
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Vibration noise while machine is running; noise changes when speed is changed.	1. The rotating drill chuck is contacting the headstock assembly. 2. The drill is damaged.	1. Remove drill from headstock. Reposition drill correctly in headstock and tighten. 2. Remove drill from headstock. Restart the drill. If the vibration noise continues, the drill may be damaged.
Vibration noise is constant while machine is running at different speeds.	1. The lathe bed mounting screws are loose.	1. Tighten mounting screws. If a through mount has not been used, consider remounting as shown on Page 10.
Extreme vibration.	1. Lathe bed `mounted on an uneven surface. 2. Workpiece mounted incorrectly. 3. Workpiece warped, out of round, or is flawed. 4. Workpiece is brushing against the lathe bed. 5. The tailstock live center bearing is worn.	1. Mount on an even work surface. 2. Remount workpiece, making sure that centers are embedded in true center of workpiece. 3. Do not use the workpiece; balance workpiece by turning down unbalanced areas. 4. Unplug the drill from power and hand turn the piece one full rotation. If the workpiece hits the bed, it exceeds the maximum swing depth and it cannot be turned without modification. 5. These bearings are sealed in the live center assembly. Replace live center assembly.
Chisels grab or dig into workpiece.	1. Toolrest set too low or too far from the workpiece. 2. Wrong chisel/tool being used. 3. Chisel/tool dull.	1. Read instructions on toolrest positioning on **Page 15**, then re-adjust toolrest. 2. Use the correct chisel/tool; educate yourself by reading books, trade magazines, or seeking help from an experienced lathe operator. 3. Sharpen or replace the chisel/tool you are using.
Bad surface on workpiece after turning.	1. Wrong drill speed. 2. Dull chisel or wrong chisel used.	1. Use trial-and-error to find a better drill speed. 2. Sharpen chisel or try a different chisel.
Turning results vary along length of workpiece.	1. Headstock and tailstock are not in alignment.	1. To check alignment, move the tailstock forward until the tip of the live center touches the spur center. The point of contact should be the center of each.
Tailstock moves.	1. Tailstock mounting bolt is loose. 2. Workpiece is too tight in tailstock. 3. Excess lubricant on lathe bed.	1. Tighten the bolt. 2. Apply less clamping pressure with tailstock. 3. Remove excess with a clean rag.

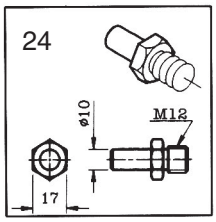
H2669 Parts Breakdown

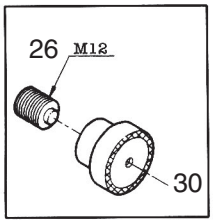


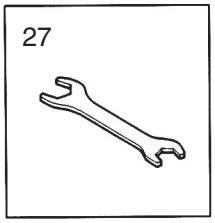


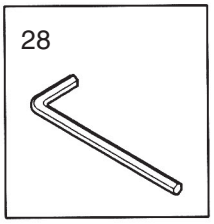












H2669 Parts List

REF	PART #	DESCRIPTION
1	PH2669001	LATHE BED
2	PH2669002	HEADSTOCK
3	PB73M	HEX BOLT M10-1.5 X 50
4	PW02	FLAT WASHER 3/8
5	PH2669005	T-NUT M10-1.5
6	PH2669006	SPECIAL CAP SCREW M6-1 X 60
7	PN01M	HEX NUT M6-1
8	PH2669008	TAILSTOCK
9	PH2669009	LIVE CENTER
10	PN32M	HEX NUT M14-2
11	PH2669011	TURNING PIN 5 X 50MM
12	PH2669012	SPECIAL HEX BOLT M10-1.5 X 60
13	PH2669013	TOOLREST
14	PH2669014	KNOB SCREW M8-2 X 16
15	PH2669015	TOOLREST BASE

REF	PART #	DESCRIPTION
16	PH2669016	LOCKDOWN LEVER
17	PH2669017	SPECIAL HEX BOLT M10-1.5 X 35
18	PH2669005	T-NUT M10-1.5
19	PSS53M	SET SCREW M5-.8 X 12
21	PH2669021	FACEPLATE
22	PH2669022	SANDING TABLE
23	PH2669023	SPUR CENTER
24	PH2669024	DRILL ADAPTER
26	PH2669026	DOG PT SET SCR M12-1.75 X 10
27	PH2669027	WRENCH 17/22MM
28	PAW05M	HEX WRENCH 5MM
27	PHTEK31M	TAP SCREW M4 X 14
30	PH2669030	SCREW CENTER
31	PH2669031	GRIZZLY LOGO

WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

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The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

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____ Family Handyman
____ Hand Loader
____ Handy
____ Home Shop Machinist
____ Journal of Light Cont.
____ Live Steam
____ Model Airplane News
____ Modeltec
____ Old House Journal
____ Popular Mechanics
____ Popular Science
____ Popular Woodworking
____ Practical Homeowner
____ Precision Shooter
____ Projects in Metal
____ RC Modeler
____ Rifle
____ Shop Notes
____ Shotgun News
____ Today's Homeowner
____ Wood
____ Wooden Boat
____ Woodshop News
____ Woodsmith
____ Woodwork
____ Woodworker West
____ Woodworker's Journal
____ Other:

3. What is your annual household income?

____ $20,000-$29,000 ____ $30,000-$39,000 ____ $40,000-$49,000
____ $50,000-$59,000 ____ $60,000-$69,000 ____ $70,000+

4. What is your age group?

____ 20-29 ____ 30-39 ____ 40-49
____ 50-59 ____ 60-69 ____ 70+

5. How long have you been a woodworker/metalworker?

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6. How many of your machines or tools are Grizzly?

____ 0-2 ____ 3-5 ____ 6-9 ____ 10+

7. Do you think your machine represents a good value? _____ Yes _____ No

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9. Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: *We never use names more than 3 times.* _____ Yes _____ No

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